

Claims

1. Foil holder for fixing an electrical connector to a foil cable comprising at least one conductive line, the foil holder being configured such that a contact housing, which comprises at least one contact element for electrically contacting the conductive line, may be
5 assembled on the foil holder such that contact element abuts the conductive line in a contact region.
2. Foil holder according to claim 1, characterised by at least one aperture, through which the conductive line may be contacted by the at least one contact element.
3. Foil holder according to either claim 1 or claim 2, characterised in that the foil holder
10 comprises two half-shells, between which the foil cable may be at least partially received.
4. Foil holder according to claim 3, characterised in that the two half-shells of the foil holder are connected by a hinge connection, such that the two half-shells may be folded in order to fit together.
5. Foil holder according to claim 4, characterised in that the hinge connection has an
15 axis of rotation that extends in the direction of the longitudinal axis of the foil cable.
6. Electrical connector for electrically contacting a foil cable with at least one conductive line embedded in a foil, wherein the electrical connector comprises an insulating housing, which at least partially encloses the foil cable, and at least one contact element for electrically contacting the conductive line,
20 wherein the insulating housing comprises a contact housing, in which the at least one contact element is received, and a foil holder according to any one of claims 1 to 5, which is separated therefrom.
7. Electrical connector according to claim 6, characterised in that the contact housing comprises at least one retaining clip, which at least partially engages the foil holder in a final,
25 assembled position.
8. Electrical connector according to either claim 6 or claim 7, characterised in that the contact housing is configured such that it may be displaced, with respect to the foil holder,

from a pre-assembled position into the final, assembled position, parallel to the plane defined by the foil cable.

9. Electrical connector according to any one of claims 6 to 8, characterised in that at least one locking device is moulded onto the contact housing, and the locking device locks with the foil holder, in order to mechanically secure the contact housing in the final, assembled position on the foil holder.
10. Electrical connector according to any one of claims 6 to 9, characterised in that the contact element is constructed as a spring arm and, in the final, assembled position, the contact region may be pressed against the conductive line.
- 10 11. Electrical switch device having a switch module, which comprises at least one switch element arranged on a circuit board, wherein the switch module may be connected to a foil cable by means of an electrical connector according to any one of claims 6 to 10.
12. Electrical switch device according to claim 11, characterised in that two probes, which may be actuated by a rocker, are arranged on the circuit board.
- 15 13. Method for assembling an electrical component on a foil cable, comprising the following steps;
- connecting a foil holder to the foil cable;
- connecting the electrical component to a contact housing, which comprises at least one contact element for electrically contacting at least one conductive line of the foil cable;
- 20 assembling the contact housing on the foil holder.
14. Method according to claim 13, characterised in that the step of connecting the foil holder to the flexible flat conductor includes:
- placing a first half-shell of the foil holder on the foil cable; and
- connecting the first half-shell to a second half-shell, so that the foil cable is at least
- 25 partially enclosed by the foil holder.

15. Method according to claim 14, characterised in that the step of connecting the two half-shells includes:

connecting the two half-shells by means of a hinge connection;

5 folding the second half-shell about an axis of rotation of the hinge connection, the axis of rotation extending in the direction of the longitudinal axis of the foil cable.

16. Method according to any one of claim 13 to 15, characterised in that the step of assembling the contact housing on the foil holder includes:

assembling the contact housing on the foil holder in a pre-assembled position;

10 displacing the contact housing in the direction of the longitudinal axis of the foil cable until the at least one contact element contacts the conductive line of the foil cable in a final, assembled position.